S
631.64
L3wmp
1985

FINAL REPORT

WASHOE MINE PROJECT
CARBON COUNTY, MONTANA

NOVEMBER, 1985

STATE DOCUMENTS COLLECTION

rcd 27 2001

MONTANA STATE LIBRARY
1515 E. 6th AVE.
HELENA, MONTANA 59620

L. C. HANSON COMPANY
CONSULTING ENGINEERS & SURVEYORS
HELENA — GREAT FALLS — GLENDIVE

MONTANA STATE LIBRARY
3 0864 0015 6750 5

P.O. Box 299
Lower Level — 3108 McHugh Drive
Helena, Montana 59624

FINAL REPORT

WASHOE MINE PROJECT
CARBON COUNTY, MONTANA

NOVEMBER, 1985

Attention: MR. RICHARD JUNTUNEN, CHIEF
Abandoned Mine Reclamation Bureau
Department of State Lands
1625 11th Avenue
Helena, Montana 59620

Prepared by: L. C. HANSON COMPANY
Consulting Engineers
3108 McHugh Lane
PO Box 299
Helena, Montana 59624

Allan W. Nye, P.E.
Project Engineer

Clarence J. Farry
Project Inspector

L. C. HANSON COMPANY
CONSULTING ENGINEERS & SURVEYORS
HELENA — GREAT FALLS — GLENDIVE

WASHOE MINE PROJECT

OBJECTIVE:

The project goal was to excavate, haul and regrade coal waste materials, to close mine openings, and to fill subsidence holes in the general area of the WASHOE MINE between Red Lodge and Bearcreek.

PROJECT LOCATION:

The project is located north of State Highway 308 approximately three (3) miles southeast of Red Lodge in Scotch Coulee. Three distinct mining operations were encompassed in the project.

PROJECT PLANNING:

The reclamation plan for this project was originally designed and engineered by Kiewit Mining and Engineering as a part of a larger project in the Bearcreek area. L. C. Hanson Company was contracted to redesign the original Bearcreek work into smaller projects. The WASHOE MINE project was then advertised and a Contract for construction was awarded to Montgomery Construction of Hilger, Montana.

WORK DESCRIPTION:

Work commenced on August 19, 1985 with the Contractor using dozers and scrapers for cut and fill operations at the WASHOE MINE site. A water truck, backhoe, dump trucks, motor patrol, and other support equipment were using during the project. Burning materials were extinguished at the disposal site prior to final placement.

Scrapers and dozers also excavated, hauled, and placed coal waste materials from the Bear Creek Mine site into subsidence features and the Washoe Strip Mine. A backhoe excavated coal waste materials from the Smith Pile No. 8 adjacent to the creek. The excavated materials were placed in the strip mine.

Minimum densities were easily achieved by watering and routing construction equipment over the fill areas. Authorization for providing 10,400 C.Y. of topsoil was given to cover all coal waste materials.

Lime was placed on coal waste materials prior to the placement of topsoil. A "STOP WORK ORDER" was issued on September 20, 1985. The revegetation operations commenced on October 15 and were completed on October 18. Fencing work was completed on November 4.

The Contract also called for the removal of an existing concrete arch portal from the WASHOE MINE and to store it for future implementation into the Miner's Museum in Red Lodge. This work was successfully completed on September 18.


Digitized by the Internet Archive
in 2016

https://archive.org/details/finalreportwasho1985lcha

DISCUSSION:

Two Change Orders were executed during the Contract. One change order required the construction of a drainage ditch in Red Lodge adjacent to the Airport Road. The other change order covered the addition of Additive Alternate No. 1 for supplying and placing topsoil.

A total of ninety-two (92) consecutive calendar days were allowed to complete the job. The Contractor used sixty-one (61) calendar days to complete the work.

QUANTITY SUMMARY:

Total Area of Project	22.1 Acres
Coal Waste Materials Excavated and Placed in Embankment	95,200 C.Y.
No. of Subsidence Holes Filled	25
Topsoil	10,475 C.Y.
Fencing - New F4W Farm Fence	7305 L.F.
TOTAL CONSTRUCTION COST	$255,410.50
Cost Per Acre	$ 11,557.04

COMMENTS:

The Contractor's personnel were cooperative and well versed in construction procedures.

The equipment was good. Time lost by equipment failure was minimal.

The completed project complies with the Contract requirements. The L. C. Hanson Company has recommended acceptance of the project to the Department of State Lands.

- SLIDE LOG -

WASHOE MINE PROJECT

1.	8-8-85	Washoe Mine - Concrete portal arch.
2.	8-8-85	Washoe Mine - Concrete portal arch.
3.	8-21-85	Washoe Mine - Concrete removed.
4.	8-21-85	Washoe Mine - Concrete removed.
5.	8-21-85	Washoe Mine - Pioneering near top stack.
6.	8-22-85	Washoe Mine - Steam from pile appears hot.
7.	8-27-85	Washoe Mine - 3 dozers, 2 scrapers top Washoe pile.
8.	8-27-85	Washoe Mine - 3 dozers, 2 scrapers scoria and coal.
9.	9-04-85	Washoe Mine - Near Smith Mine - removal backhoe
10.	9-04-85	Washoe Mine - Near Smith Mine - removal.
11.	9-04-85	Washoe Mine - Near Smith Mine - Fill subsidence holes from pile.
12.	9-17-85	Washoe Mine - Crane used to move portal - Ostermiller
13.	9-17-85	Washoe Mine - Crane hooked up to the portal.
14.	9-17-85	Washoe Mine - Lifting the portal.
15.	9-18-85	Washoe Mine - Portal lifted.
16.	9-18-85	Washoe Mine - Portal being moved.
17.	9-18-85	Washoe Mine - Portal placed where agreed.
18.	9-18-85	Washoe Mine - Equipment on hill as anchor so portal would not slide.